

X8

*Lanzar*®

**3 WAY ELECTRONIC CROSSOVER**

**OWNER'S MANUAL**



vibe

## INTRODUCTION

Congratulations on your purchase of a LANZAR Crossover. This product has been designed and built to deliver excellent sound quality and long lasting high performance. We are sure you'll enjoy listening to your favorite music with this LANZAR component in your car audio system. For best results please consult a professional car stereo installer for application advice or troubleshooting. Thank you for choosing LANZAR products for your autosound system. Everything else is just noise.

## FEATURES

### FRONT AND REAR CHANNEL :

- \* High Pass Frequency Selector  
40Hz TO 400Hz
- \* Frequencies Multiplier x1 OR x20
- \* Crossover Slope 6dB/Octave or  
12dB/Octave
- \* Signal Gain Control
- \* Parallel Input Switch

### SUBWOOFER CHANNEL:

- \* Subwoofer Input Switch
- \* +12dB Bass Boost
- \* Phase Shift Switch
- \* Stereo/Mono Switch
- \* Output Level Control
- \* Exclusive Remote Subwoofer Level Control
- \* Low Pass Frequency Selector 32Hz to 250Hz
- \* Bass Boost Frequency Selector 25Hz to 250Hz

## SPECIFICATIONS

Power Supply .....	DC to DC switching power
S/N Ratio .....	110dB
Channel Separation .....	80dB
Distortion .....	THD @ 0.01%
Crossover Slope .....	12dB per Octave
Input Impedance .....	20K Ohms
Output Impedance .....	100 Ohms
Output Gain .....	1:2 (+6dB)
Output Voltage Level .....	8Volts Max
Dimensions .....	5 1/2" (W) x 1 1/2" (L) x 1 1/4" (H)

Features and specifications subject to change without notice.

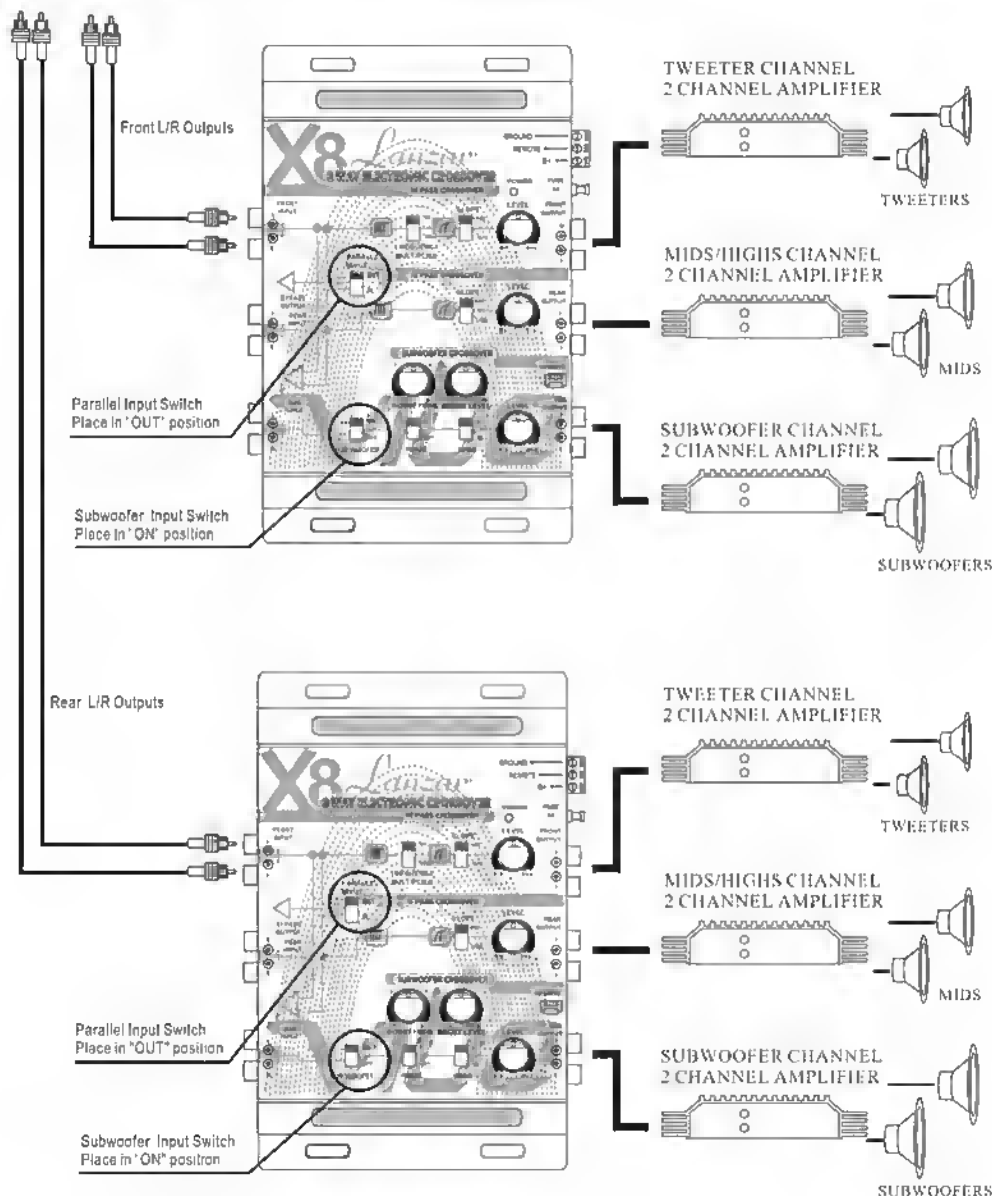
## INSTALLATION

1. Find a suitable location in the vehicle to mount the crossover.
2. Bolt the crossover to the mounting surface.
3. Using the screw terminals provided, connect minimum 16 gauge wire from the power, Ground and remote terminals. Connect the shortest possible wire to a chassis ground point. The (+) 12V connection should be made directly to the car battery, and the remote should be connected to the Remote Turn On Lead of your head unit. When connecting directly to the battery, install a 3A Fuse within 18 Inches of the battery terminal.
4. Connect all line inputs and outputs using high-quality RCA cables.
5. Recheck all connections before powering up.
6. Set all level controls to their minimum positions and set all crossover controls, switches, etc. To the desired frequency or position.
7. Once the system is powered up, set the volume control on the head unit to a moderate level where your normal speaking voice can be heard while the music is playing.
8. Further line tuning of the various controls may be necessary to obtain the desired results.
9. When unsure about installation or system tuning, please consult an authorized dealer.

## 4 Channel Stereo Front/Rear/Dual Crossover System

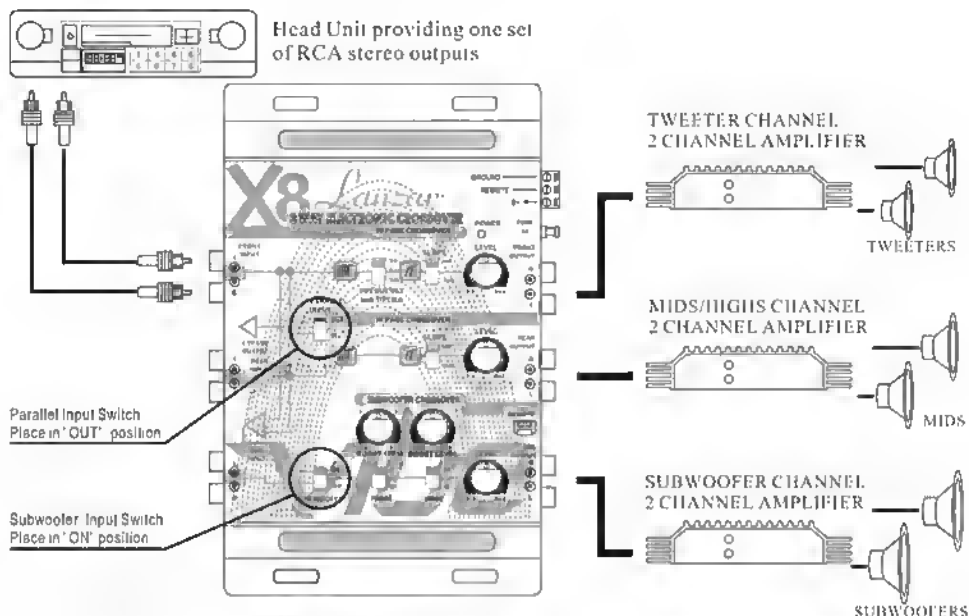


Head Unit providing independent Front and Rear Channel signals

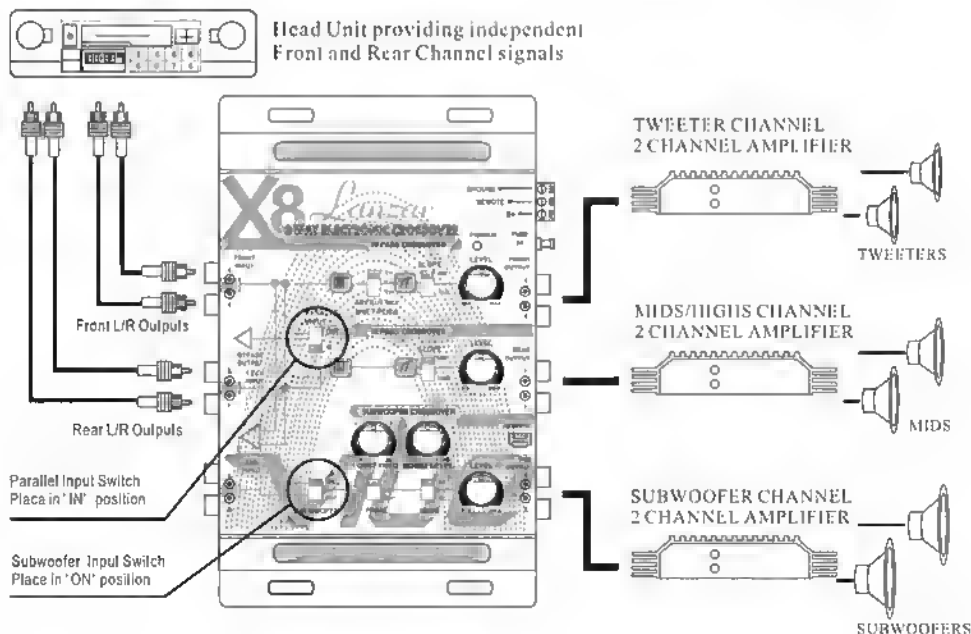


## SIGNAL CONNECTION SYSTEMS:

### 2 Channel Stereo System

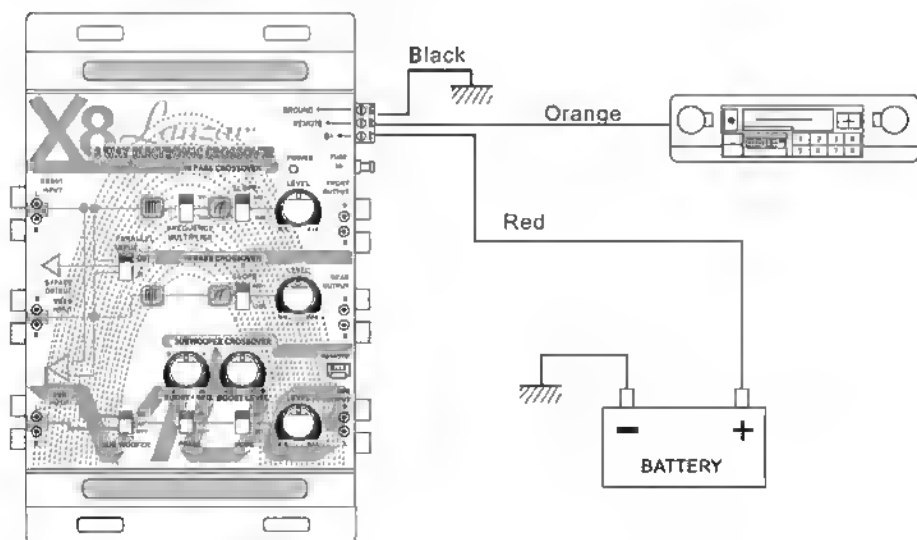


### 4 Channel Stereo Front/Rear System

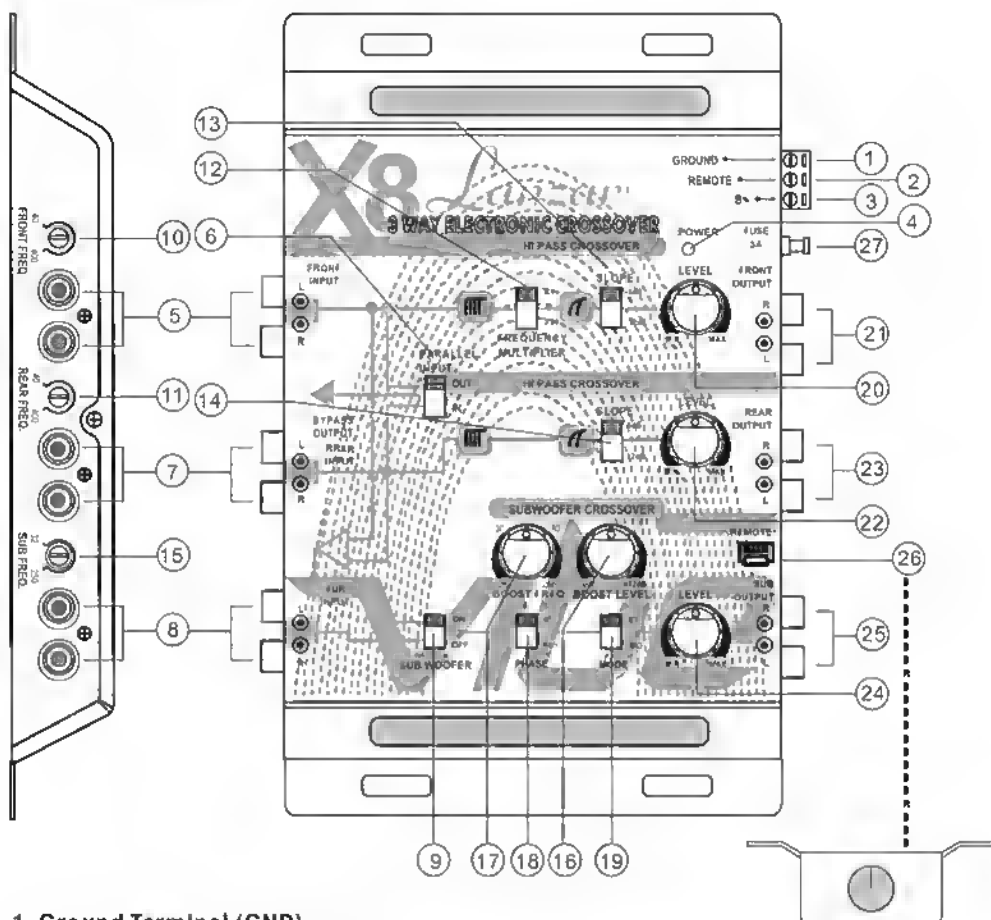


- 9. Subwoofer Input Switch:** If there is no dedicated subwoofer signal available from the signal source, place this switch in the "ON" position to provide signal at the subwoofer output terminals. If there is a dedicated subwoofer signal source available for this input purpose, place the switch in the "OFF" position.
- 10. Front channel High-Pass frequency selector.**
- 11. Rear channel High-Pass frequency selector.**
- 12. Frequency Multiplier:** for Front Channel High Pass Frequency selector.
- 13 & 14 : Front and Rear Channel Slope Selectors:** Move the selector switch to the 6 dB position when little or no attenuation as well as little or no separation is required between the selected frequency and the next adjacent frequency. Selected 12dB position when greater definition and/or attenuation is desired between the selected frequency and the other adjacent frequencies.
- 15. Subwoofer Low Pass Frequency Selector.**
- 16. Bass Boost Level Control.**
- 17. Bass Boost Frequency Selector.**
- 18. Phase Shift Selector switch:** Use this switch to select output phase for the subwoofer channel to provide best time alignment and stereo imaging.
- 19. Stereo / Mono Switch:** For selection of stereo and mono mode for subwoofer output signal.
- 20 & 22. Front and Rear Channel High Pass Level Controls.**
- 21. Front Channel Output Terminals.**
- 23. Rear Channel Output Terminals.**
- 24. Subwoofer Low Pass Level Control**
- 25. Subwoofer Channel Outputs Terminals.**
- 26. Subwoofer Remote Level Control Jack:** To be connected to the remote control for adjusting the output level of subwoofer output. ( *Note: The remote control will adjust to the highest preset setting of the subwoofer low pass gain control.* )
- 27. Fuse :** Use only a 3 AMP fuse for replacement.

## WIRING DIAGRAM : Power Connection

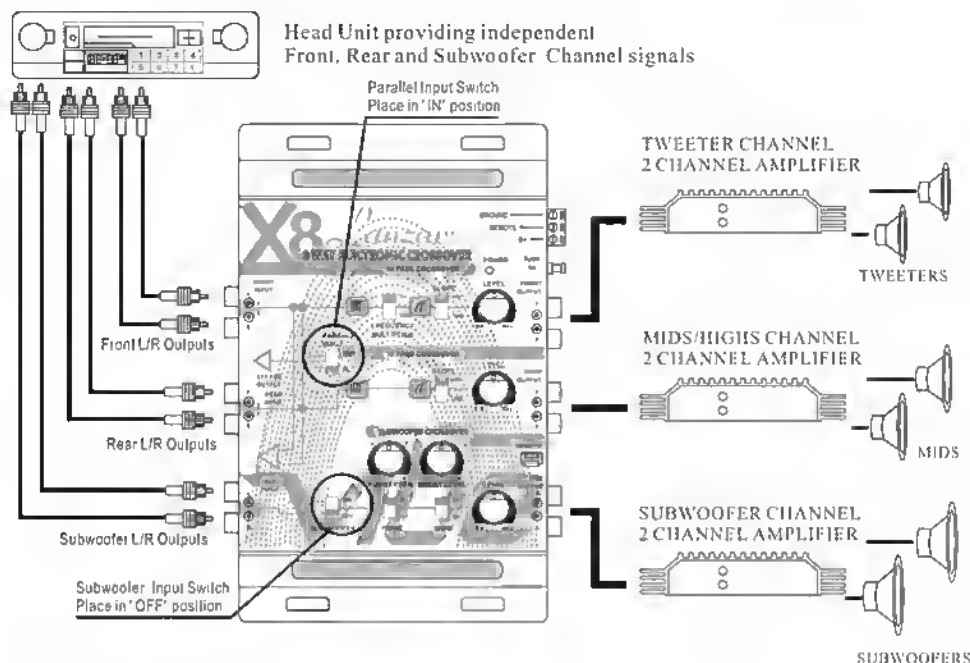


## CONTROLS AND OPERATION



1. Ground Terminal (GND).
2. Remote Turn-On Terminal (REM).
3. Power Terminal (+12V).
4. Power Indicator.
5. Front Channel Inputs.
6. Parallel Input Switch: If there are 4 sets (2 pairs/ Front & Rear) RCA inputs available, place this switch in the "IN" position. If there is only one pair of input RCA connectors being used, place this switch in the "OUT" position to provide Front and Rear input from that single pair of RCA inputs.  
(Note that the Front inputs are essentially the main inputs, thus providing an input to these terminals, and properly selection of the various switch positions would provide signals on ALL of the various outputs.)
7. Rear Channel Inputs.
8. Subwoofer Channel Inputs.

## 4 Channel Stereo Front/Rear and Subwoofer System



## TROUBLE SHOOTING

**Symptom**

**Possible remedy:**

**Signal Processor does not turn on.**

**Check:**  
\* Remote Turn-On wire has (+) 12V  
\* (+) 12V wire has (+) 12V  
\* Ground wire is properly connected;

**Level of sound is low.**

**Check:**  
\* Wiring is not loose or cables misconnected/disconnected  
\* RCA cables are not faulty

**Background noise is too high.**

**Check:**  
\* Wiring is not loose or cables misconnected/disconnected - ground is important  
\* RCA cables are not faulty

## PRECAUTIONS

**Enjoy your system, but use it wisely and safely!**

\* Never drive with the volume raised so high you cannot hear what is occurring in traffic around you.

\* Be ware that repeated exposure to excessive volume levels can permanently damage your hearing!

\* Keep all electronics away from moisture, dust, extreme heat or extreme vibrations.